

What is claimed is:

1. A medication delivery pen having a cartridge containing a predetermined amount of medication for injection into a patient, the cartridge having a plunger axially movable therein to expel the medication from the cartridge, said medication delivery pen comprising:
 - a lead screw having an enlarged portion at a first end thereof, said lead screw having an end longitudinally opposite said first end in contacting engagement with the plunger, said lead screw being selectively axially displaceable by a user when selectively administering a predetermined dosage amount of medication for injection into a patient;
 - a driver coaxially disposed about said lead screw; and
 - a reset ring non-rotatably disposed on said driver and axially slidable thereon and therealong, said reset ring being axially movable with respect to said driver when a dosage amount is set by a user of said medication delivery pen, wherein said reset ring engages said enlarged portion of said lead screw upon a predetermined extent of relative axial movement between said reset ring and said lead screw.
2. A medication delivery pen as in claim 1, wherein said reset ring includes at least one protruding spline.
3. A medication delivery pen as in claim 2, wherein said driver includes a keyway and a limited-depth channel spaced from said keyway, and wherein said reset ring includes a protrusion formed to extend through said keyway, said spline being formed to extend into, and axially slide along, said channel.

4. A medication delivery pen as in claim 2, wherein said driver includes a limited-depth slot extending longitudinally from said keyway, said spline being formed to extend into, and axially slide along, said slot.
5. A medication delivery pen as in claim 2, wherein said protrusion and said spline are unitarily formed.
6. A medication delivery pen as in claim 1, wherein said driver includes an annular stop disposed midway along the length thereof.
7. A medication delivery pen as in claim 1, wherein said reset ring includes an annular rim.
8. A medication delivery pen as in claim 7, wherein at least one surface of said annular rim being ramped.
9. A medication delivery pen as in claim 1, wherein said dosage amount is less than the predetermined amount of medication in the cartridge, and wherein multiple dosages may be administered using a single cartridge.
10. A device for setting and administering a dose of medication for a medication delivery pen having a cartridge containing a predetermined amount of medication for injection into a patient, the cartridge having a plunger axially movable therein to expel the medication from the cartridge, said device comprising:

a body;

a lead screw contained within said body and having an enlarged portion at a distal end thereof, said lead screw having a proximal end in contacting engagement with the plunger, said lead screw being selectively axially displaceable in a distal to proximal direction by a user of the medication delivery pen when selectively administering a predetermined dosage amount of medication for injection into a patient;

a driver coaxially disposed about said lead screw and provided within said body; and

a reset ring non-rotatably disposed on said driver and axially slidable thereon and therealong, said reset ring being axially movable with respect to said driver when a dosage amount is set by the user, wherein said reset ring engages said enlarged portion of said lead screw upon a predetermined extent of relative axial movement between said reset ring and said lead screw to limit the dosage amount to no more than the amount of medication contained in the cartridge.

11. A device as in claim 10, further comprising a dose knob provided in said body, said dose knob being selectively rotatable with respect to the body by the user to set the dosage amount, and being axially displaceable with respect to said body by the user to expel the dosage amount of medication from the cartridge, rotation of said dose knob by the user causing axial proximal to distal displacement of said dose knob and said reset ring, axial displacement of said dose knob by the user causing distal to proximal movement of said lead screw and expulsion of the dosage amount.

12. A device as in claim 10, wherein said reset ring includes at least one protruding spline.

13. A device as in claim 12, wherein said driver includes a keyway and a limited-depth channel spaced from said keyway, and wherein said reset ring includes a protrusion formed to extend through said keyway, said spline being formed to extend into, and axially slide along, said channel.
14. A device as in claim 12, wherein said driver includes a limited-depth slot extending longitudinally from said keyway, said spline being formed to extend into, and axially slide along, said slot.
15. A device as in claim 12, wherein said protrusion and said spline are unitarily formed.
16. A device as in claim 10, wherein said driver includes an annular stop disposed midway along the length thereof.
17. A device as in claim 10, wherein said reset ring includes an annular rim.
18. A device as in claim 17, wherein at least one surface of said annular rim being ramped.
19. A device as in claim 10, wherein said dosage amount is less than the predetermined amount of medication in the cartridge, and wherein multiple dosages may be administered using a single cartridge.

20. A medication delivery pen for delivering a dosage amount of medication from a cartridge containing a predetermined amount of medication for injection into a patient, the cartridge having a plunger axially movable therein to expel the medication from the cartridge, said medication delivery pen comprising:

a cartridge holder within which the cartridge may be held;

a body coupled to said cartridge holder;

a lead screw contained within said body and having an enlarged portion at a distal end thereof, said lead screw having a proximal end in contacting engagement with the plunger, said lead screw being selectively axially displaceable in a distal to proximal direction by a user of the medication delivery pen when selectively administering a predetermined dosage amount of medication for injection into a patient;

a driver coaxially disposed about said lead screw and provided within said body;

a reset ring non-rotatably disposed on said driver and axially slidable thereon and therealong, said reset ring being axially movable with respect to said driver when a dosage amount is set by the user, wherein said reset ring engages said enlarged portion of said lead screw upon a predetermined extent of relative axial movement between said reset ring and said lead screw to limit the dosage amount to no more than the amount of medication contained in the cartridge; and

a dose knob provided in said body, said dose knob being selectively rotatable with respect to the body by the user to set the dosage amount, and being axially displaceable with respect to said body by the user to expel the dosage amount of medication from the cartridge, rotation of said dose knob by the user causing axial proximal to distal displacement of said dose

knob and said reset ring, axial displacement of said dose knob by the user causing distal to proximal distal to proximal movement of said lead screw and expulsion of the dosage amount.

21. A medication delivery pen as in claim 20, wherein said cartridge holder and said body are non-removably coupled together, said medication delivery pen further comprising a cartridge.
22. A medication delivery pen as in claim 20, wherein said reset ring includes at least one protruding spline.
23. A medication delivery pen as in claim 22, wherein said driver includes a keyway and a limited-depth channel spaced from said keyway, and wherein said reset ring includes a protrusion formed to extend through said keyway, said spline being formed to extend into, and axially slide along, said channel.
24. A medication delivery pen as in claim 22, wherein said driver includes a limited-depth slot extending longitudinally from said keyway, said spline being formed to extend into, and axially slide along, said slot.
25. A medication delivery pen as in claim 22, wherein said protrusion and said spline are unitarily formed.
26. A medication delivery pen as in claim 20, wherein said driver includes an annular stop disposed midway along the length thereof.

27. A medication delivery pen as in claim 20, wherein said reset ring includes an annular rim.
28. A medication delivery pen as in claim 27, wherein at least one surface of said annular rim being ramped.
29. A medication delivery pen as in claim 20, wherein said dosage amount is less than the predetermined amount of medication in the cartridge, and wherein multiple dosages may be administered using a single cartridge.